SEARCH REQUEST FORM   Scientific and Technical Information Center - EIC2800
Rev. 1/26/2006 This is an experimental format -- Please give suggestions or comments to Jeff Harrison, JEF-4B68, 22511.

Date 8/19/06   Serial # 10/664,957 Priority Application Date 1/11/02

Your Name M. Lewis   Examiner # _____

AU 2822   Phone 272-1838   Room JA 30

In what format would you like your results? Paper is the default.   (PAPER)   DISK   EMAIL

If submitting more than one search request form, please prioritize the searches in order of need.

Where have you searched so far on this case?
Circle: USPT   DWPI   EPO Abs   JPO Abs   IBM TDB
Other: _____

Need before 8/25

What relevant art have you found so far? Please attach citations or Information Disclosure Statements.
_____

What types of references would you like? Please checkmark:

Primary Refs ✓   Nonpatent Literature ____   Teaching Refs ____
Secondary Refs ✓   Foreign Patents ____   Other _____

AUG 21 RECD

Is this a "Fast & Focused Search" request? (Circle One)   YES   (NO).

A "Fast & Focused Search" is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria.   The criteria are posted in EIC2800 and on the STIC NPL Web Page at http://uspto-a-pattr-2/siraapps/stic/npl/nplsearch.htm

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What is the topic, such as the novelty, motivation, utility, or other specific facets defining the desired focus of this search?   Please include the concepts, synonyms, keywords, acronyms, registry numbers, definitions, structures, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract and pertinent claims.

Claims 2-6

MEM

Problem: See pages 1-3

Solution: "   "   3&4

Reduce the size of the MEM

US 6,975,326

Staff Use Only

Searcher: Michael O'Brien

Searcher Phone: 571-372-2163

Searcher Location: STIC-EIC2800, JEF-4B68

Date Searcher Picked Up: 8/28/2006

Date Completed: 8/29/2006

Searcher Prep/Rev Time: 71

Online Time: 114

Type of Search

Structure (#) _____
Bibliographic ✓
Litigation _____
Fulltext _____
Patent Family ✓
Other _____

Vendors

STN ✓
Dialog ✓
Questel/Orbit _____
Lexis-Nexis _____
WWW/Internet _____
Other _____

(FILE 'HOME' ENTERED AT 16:24:07 ON 28 AUG 2006)

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        FILE 'CAPLUS' ENTERED AT 16:24:29 ON 28 AUG 2006
L1      706819 SEA ABB=ON  PLU=ON  SEMICONDUCTOR OR SEMI CONDUCTOR OR CHIP OR
               MICROCHIP OR IC OR INTEGRATED CIRCUIT#######
L2     1910603 SEA ABB=ON  PLU=ON  SUBSTRATE OR WAFER##### OR SUPPORT#####
L3       22685 SEA ABB=ON  PLU=ON  MEMS OR MICROMECHANICAL OR MICRO ELECTROMEC
               HANICAL OR (MICROMECHANIC###### OR MICRO)(3A)(DEVICE OR MEANS
               OR APPARATUS OR APPT) OR MEM
L4     3603104 SEA ABB=ON  PLU=ON  UNIT OR MODUL############ OR COMPONENT OR
               ITEM OR ELEMENT OR ASSEMBL#########
L5         646 SEA ABB=ON  PLU=ON  L1 AND L2 AND L3 AND L4
L6          47 SEA ABB=ON  PLU=ON  L5 AND (MOVING OR MOVABLE OR MOTILE OR NON
               STATIC OR DYNAMIC#######)
L7          53 SEA ABB=ON  PLU=ON  SL6 AND PY<=2002
L8          22 SEA ABB=ON  PLU=ON  L6 AND PY<=2002
L9           1 SEA ABB=ON  PLU=ON  L8 AND MIRROR######
L10          1 SEA ABB=ON  PLU=ON  L8 AND MEMOR#####
L11          7 SEA ABB=ON  PLU=ON  L8 AND (SENS####### OR DETECT#####)
L12          6 SEA ABB=ON  PLU=ON  L8 AND (ELECTROD###### OR CATHOD###### OR
               ANOD##### OR CONDUCT#######)
L13          6 DUP REM L12 (0 DUPLICATES REMOVED)
L14         72 SEA ABB=ON  PLU=ON  (REDU####### OR DECREAS##### OR SHRINK#####
               OR MINIM######)(3A)MEMS
L15         24 SEA ABB=ON  PLU=ON  L14 AND PY<=2002
L16         24 DUP REM L15 (0 DUPLICATES REMOVED)
L17          0 SEA ABB=ON  PLU=ON  L15 AND L6
L18          2 SEA ABB=ON  PLU=ON  L15 AND MIRROR######
L19         24 SEA L16
L20          4 SEA ABB=ON  PLU=ON  L19 AND (SENS####### OR DETECT#####)
L*** DEL    18 S L14 AND L1
L21         24 SEA L16
L22          4 SEA ABB=ON  PLU=ON  L21 AND L1
L23         24 SEA L16
L24          9 SEA ABB=ON  PLU=ON  L23 AND L4
               D L9 IBIB ABS
L25          1 SEA ABB=ON  PLU=ON  L10 NOT L9
               D L25 IBIB ABS
L26          6 SEA ABB=ON  PLU=ON  L11 NOT (L9 OR L10)
               D L26 IBIB ABS 1-6
L27          6 SEA L13
L28          3 SEA ABB=ON  PLU=ON  L27 NOT (L9 OR L10 OR L11)
               D L28 IBIB ABS 1-3
L29          6 SEA L13
L30          2 SEA ABB=ON  PLU=ON  L18 NOT (L9 OR L10 OR L11 OR L29)
               D L30 IBIB ABS 1-2
L31          6 SEA L13
L32          4 SEA ABB=ON  PLU=ON  L20 NOT (L9 OR L10 OR L11 OR L31 OR L18)
               D L32 IBIB ABS 1-4
L33          6 SEA L13
L34          3 SEA ABB=ON  PLU=ON  L22 NOT (L9 OR L10 OR L11 OR L33 OR L18 OR
               L20)
               D L34 IBIB ABS 1-3
L35          6 SEA L13
L36          5 SEA ABB=ON  PLU=ON  L24 NOT (L9 OR L10 OR L11 OR L35 OR L18 OR
               L20 OR L22)
               D L36 IBIB ABS 1-5
FILE 'STNGUIDE' ENTERED AT 16:48:18 ON 28 AUG 2006
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[File 344] Chinese Patents Abs Jan 1985-2006/Jan
[File 347] JAPIO Nov 1976-2005/Sep(Updated 060103)
[File 350] Derwent WPIX 1963-2006/UD,UM &UP=200607
[File 371] French Patents 1961-2002/BOPI 200209

Set	Items	Description

S1   2776814   S SEMICONDUCTOR? ? OR SEMI()CONDUCTOR? ? OR PCB? ? OR TAB? ? OR
PRINT????()CIRCUIT()BOARD? ? OR CIRCUIT???()BOARD? ? OR LOAD()BOARD? ? OR LOADBOARD? ? OR LSI? ?
OR ASIC? ? OR ELECTRON???()DEVICE? ? OR PRINT???()CIRCUIT??? OR IC? ? OR INTEGRAT????()CIRCUIT???
OR CHIP? ? OR WAFER??? OR MICROCHIP? ? OR MICRO()CHIP? ? OR VLSI? ? OR FLEX?????(3N)CIRCUIT OR
FLEX?????? OR (LEAD? ? OR WIRE? ? OR WIRING OR LINE? ? OR TRAC????? OR
INTEGRAT?????)(3N)FLEX??????

S2   57011   S MEMS OR OPTICAL????(2N)SWITCH???? OR MICROMACHIN????? OR MICRO()MACHIN???? OR
MICROELECTROMECHANICA????? OR MICRO()ELECTROMECHANICAL?????? OR MICRO()ELECTRO()MECHANICAL?????
OR MICROMECHANIC?????? OR MICRO()MECHANIC??????? OR MICRO(3N)MECHANICAL OR
MICRO(2N)ELECTROMECHANICAL????? OR (MICRO OR MICROMECHANIC??????)(3N)(DEVICE? ? OR MEANS OR
APPARATUS OR APPT OR CHIP OR CIRCUIT?????)

S3   3882318   S SUBSTRATE? ? OR WAFER?????? OR SUPPORT?????? OR CHIP OR MICROCHIP OR
MICRO()CHIP

S4   11919304   S UNIT? ? OR ASSEMBL???? OR ENTIT???? OR GROUP? ? OR MODULE? ? OR PIECE? ? OR
COMPONENT? ? OR ELEMENT? ? OR ITEM? ? OR PART? ?

S5   3786428   S MOVING OR MOVABLE OR SHIFT???? OR ADVANC???? OR MOBIL????? OR MOTIVE OR
MOTIL????? OR MOTION???? OR ACTIV?????? OR AGITATE??????

S6   2301630   S (CONTROL???? OR MASTER??? OR GUID???? OR OPERAT???? OR
GOVERN???)(3N)(ELECTRODE? ? OR CONDUCTOR? ? OR ROD? ? OR ANODE? ? OR CATHODE? ? OR PROBE? ?) OR
ELECTRODE? ? OR CONDUCTOR? ? OR ROD? ? OR ANODE? ? OR CATHODE? ? OR PROBE? ?

S7   7929119   S SENS???? OR DETECT???? OR MONITOR???? OR MEASUR????? OR TEST???? OR GAUG???? OR
PROB???? OR ACTUAT???? OR CONTROL????(2N)(MEANS OR DEVICE OR APPT OR APPARATUS)

S8   5068531   S (RECORD??? OR NONVOLATILE OR NON()VOLATILE? ?)(3N)(ELEMENT??? OR DEVICE? ? OR
APPARATUS? OR METHOD? ?) OR DISK????? OR DISC????? OR RECORD???? OR SCRIB??? OR READ???? OR
WRIT???? OR MEMOR????? OR CACH???? OR BUFFER???? OR CD()ROM OR CD OR COMPACT()(DISC??? OR
DISK???) OR RAM? ? OR DRAM? ? OR NVRAM? ? OR SRAM? ? OR SDRAM? ? OR ROM? ? OR PROM? ? OR EPROM? ?
OR EEPROM? ? OR STOR????(3N)(DEVICE? ? OR MEANS OR APPARATUS?) OR (READ???? OR DATA? ? OR
WRIT???? OR RECORD????? OR INFORMATION? ? OR INFO? ? OR COMPUT?????????????)(3N)(STOR???? OR
MEMOR????? OR MEDIA OR MEDIUM)

S9   330   S (SHRINK?????? OR DOWNSIZ????? OR DOWN()SIZING OR DECREAS??????? OR MINIM??????
OR DIMINISH????? OR REDUC????? OR ECONOM??????)(3N)(MEM OR MEMS)

S10   108080   S IC=(B81B-001/00 OR B81B-003/00 OR B81B-005/00 OR B81B-007/02 OR B81B-007/04 OR
B81C-001/00 OR B81C-005/00 OR G02B-026/08 OR H01L-021/00 OR H01L-021/302 OR H01L-027/00 OR H01L-
027/148 OR G02B-006/35 OR G02B-006/12 OR G02B-006/28)

S11   77402   S MC=(U12-B03F1B OR V06-M06G OR V06-U04E OR V06-U14 OR V07-G15 OR U13-D04 OR V07-
G15 OR V07-K05 OR W01-A06B5A OR W01-A06B5B OR W01-A06C1 OR W02-C04A9 OR W02-C04B1)

S12	2	S S1 AND S2 AND S3 AND S4 AND S5 AND S6 AND S7 AND S8 AND S9
S13	11	S S1 AND S2 AND S5 AND S6 AND S9
S14	4	S S13 AND S10
S15	5	S S13 AND S11
S16	9	S S2 AND S4 AND S5 AND S8 AND S9
S17	2	S S16 AND S10
S18	7	S S16 AND S11
S19	3	S S14 NOT S12
S20	3	S S15 NOT (S12 OR S14)
S21	1	S S17 NOT (S12 OR S14 OR S15)
S22	4	S S18 NOT (S12 OR S14 OR S15 OR S17)

[File 2] INSPEC 1898-2006/Jan W2
[File 6] NTIS 1964-2006/Jan W4
[File 8] Ei Compendex(R) 1970-2006/Jan W4
[File 34] SciSearch(R) Cited Ref Sci 1990-2006/Jan W4
[File 434] SciSearch(R) Cited Ref Sci 1974-1989/Dec
[File 35] Dissertation Abs Online 1861-2006/Jan
[File 65] Inside Conferences 1993-2006/Jan W5
[File 94] JICST-EPlus 1985-2006/Nov W3
[File 99] Wilson Appl. Sci & Tech Abs 1983-2006/Apr
[File 144] Pascal 1973-2006/Jan W2
[File 23] CSA Technology Research Database 1963-2006/Jan
[File 103] Energy SciTec 1974-2006/Jan B1
[File 31] World Surface Coatings Abs 1976-2006/Jan
[File 95] TEME-Technology & Management 1989-2006/Jan W5
[File 56] Computer and Information Systems Abstracts 1966-2006/Aug
[File 57] Electronics & Communications Abstracts 1966-2006/Aug
[File 68] Solid State & Superconductivity Abstracts 1966-2006/Jan
[File 60] ANTE: Abstracts in New Tech & Engineer 1966-2006/Jan
[File 293] Engineered Materials Abstracts 1966-2006/Jan
[File 239] Mathsci 1940-2005/Feb
[File 256] TECINFOSOURCE 82-2005/DEC

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Set     Items    Description
S1     5287678    S SEMICONDUCTOR? ? OR SEMI()CONDUCTOR? ? OR PCB? ? OR TAB? ? OR
PRINT????()CIRCUIT()BOARD? ? OR CIRCUIT???()BOARD? ? OR LOAD()BOARD? ? OR LOADBOARD? ? OR LSI? ?
OR ASIC? ? OR ELECTRON???()DEVICE? ? OR PRINT???()CIRCUIT??? OR IC? ? OR INTEGRAT????()CIRCUIT???
OR CHIP? ? OR WAFER??? OR MICROCHIP? ? OR MICRO()CHIP? ? OR VLSI? ? OR FLEX?????(3N)CIRCUIT OR
FLEX?????? OR (LEAD? ? OR WIRE? ? OR WIRING OR LINE? ? OR TRAC????? OR
INTEGRAT?????)(3N)FLEX??????

S2      344864    S MEMS OR OPTICAL????(2N)SWITCH???? OR MICROMACHIN????? OR MICRO()MACHIN???? OR
MICROELECTROMECHANICA????? OR MICRO()ELECTROMECHANICAL?????? OR MICRO()ELECTRO()MECHANICAL?????
OR MICROMECHANIC?????? OR MICRO()MECHANIC??????? OR MICRO()ELECTRO()MECHANICAL?????
MICRO(2N)ELECTROMECHANICAL????? OR (MICRO OR MICROMECHANIC??????)(3N)(DEVICE? ? OR MEANS OR
APPARATUS OR APPT OR CHIP OR CIRCUIT?????)

S3     5204238    S SUBSTRATE? ? OR WAFER?????? OR SUPPORT?????? OR CHIP OR MICROCHIP OR
MICRO()CHIP

S4    26337029    S UNIT? ? OR ASSEMBL???? OR ENTIT???? OR GROUP? ? OR MODULE? ? OR PIECE? ? OR
COMPONENT? ? OR ELEMENT? ? OR ITEM? ? OR PART?????????

S5    13373004    S MOVING OR MOVABLE OR SHIFT???? OR ADVANC???? OR MOBIL????? OR MOTIVE OR
MOTIL????? OR MOTION???? OR ACTIV?????? OR AGITATE???????

S6     2930641    S (CONTROL???? OR MASTER??? OR GUID???? OR OPERAT???? OR
GOVERN???)(3N)(ELECTRODE? ? OR CONDUCTOR? ? OR ROD? ? OR ANODE? ? OR CATHODE? ? OR PROBE? ?) OR
ELECTRODE? ? OR CONDUCTOR? ? OR ROD? ? OR ANODE? ? OR CATHODE? ? OR PROBE? ?

S7    27244212    S SENS???? OR DETECT???? OR MONITOR???? OR MEASUR????? OR TEST???? OR GAUG???? OR
PROB???? OR ACTUAT???? OR CONTROL????(2N)(MEANS OR DEVICE OR APPT OR APPARATUS)

S8        1535    S (SHRINK?????? OR DOWNSIZ????? OR DOWN()SIZING OR DECREAS??????? OR MINIM??????
OR DIMINISH????? OR REDUC????? OR ECONOM??????)(3N)(MEM OR MEMS)

S9          0    S S1 AND S2 AND S3 AND S4 AND S5 AND S6 AND S7 AND S8
S10       225    S S1 AND S2 AND S8
S11        76    S S10 AND S5
S12        41    S S11 AND S4
S13         0    S S12 AND S6
S14        33    S S12 AND S7
S15        19    RD  (unique items)
S16         8    S S15 AND PY<=2002
S17        85    S S2 AND S4 AND S5 AND S8
S18        37    S S17 AND (MEMOR????? OR PROCESS?????? OR STOR?????? OR BUFFER?????)
S19        15    S S18 AND S3
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S20        11    RD  (unique items)
S21         6    S S20 AND PY<=2002
S22         2    S S17 AND MIRROR?????
S23         1    RD  (unique items)
S24         0    S S12 AND MIRROR???????
S25     27324    S S1 AND S2 AND S5
S26      1493    S S25 AND MIRROR?????
S27         1    S S26 AND S8
S28       718    S S26 AND S4
S29       127    S S28 AND S6
S30        67    S S29 AND (MEMOR????? OR PROCESS?????? OR STOR?????? OR BUFFER?????)
S31        35    RD  (unique items)
S32        27    S S31 AND PY<=2002
S33         1    S S32 AND DRIV????(3N)CIRCUIT????
S34        19    S S32 AND S3
S35         2    S S21 NOT S16
S36         2    S S22 NOT (S16 OR S21)
S37         1    S S27 NOT (S16 OR S21 OR S22)
S38         1    S S33 NOT (S16 OR S21 OR S22 OR S27)
S39        19    S S34 NOT (S16 OR S21 OR S22 OR S27 OR S33)
```

8/29/2006 11:02:19 AM
8/29/2006 11:05:56 AM

s pn=us 6275326

S1   1   S PN=US 6275326

map pn/ct=

SearchSave "SC471" stored
1 Select Statement, 1 Search Term(s)
SearchSave SC471

1 SearchSave(s), 1 Search Term(s)

map pn

SearchSave "SC472" stored
9 Select Statements, 101 Search Term(s)
SearchSave SC472

1 SearchSave(s), 101 Search Term(s)

[File 344] Chinese Patents Abs Jan 1985-2006/Jan
[File 347] JAPIO Nov 1976-2005/Sep(Updated 060103)
[File 350] Derwent WPIX 1963-2006/UD,UM &UP=200607
[File 371] French Patents 1961-2002/BOPI 200209

Set	Items	Description
S1	28	S1:S8 FROM 344, 347, 350, 371
S2	8	S S1 AND PY<=2002